



ZS6-D1 Screw Clamp Terminal Block Double deck



6 mm²
10 AWG

6 mm 0.236 in Spacing	Features and Benefits
	<ul style="list-style-type: none">- Ease one potential distribution on 4 independent screw clamps,- Save space by connecting conductors up to 6 mm² 10 AWG in just 6 mm 0.236 in spacing.

3D CAD outline drawings available on "Control Product 3D" portal

Ordering Details	Type	Order Code	EAN Code	Pack ^(ing)	Weight g (1 pce)	
Grey	<input type="checkbox"/>	ZS6-D1	1SNK 506 211 R0000	3472595062119	50	18.41

Explosive Atmosphere: ATEX Classification

Group Category	Protection Method
IM 2	Ex e: increased security
II 2GD *	

* in the presence of explosive dust atmosphere, terminal blocks are to be installed in certified enclosure II 2D

General Information

The following information must be strictly adhered to in order to guarantee the terminal block electrical, mechanical and environmental performance.

Protection		IP 20	NEMA 1		
Rail		DIN3-TH35			
Wire stripping length		10 mm	0.394 in		
		Screw clamp		Screw rail contact (Maximum value)	
Operating tool		Flat screwdriver			
		4 mm	0.157 in		
Torque		0.85 Nm ± 0.15 Nm	7.52 lb.in ± 1.33 lb.in	± 0.15 Nm	± 1.33 lb.in
Mechanical endurance of disconnect system					

Material Specifications

Insulating material		Polyamide	
IRC		600 V	
Flammability		UL94	V0
		NF F 16 101	I2F2
		Needle flame test IEC 60695-11-5	Compliant

Connecting capacity per clamp

1 Rigid conductor		0.2-6 mm ²		24-10 AWG
1 Flexible conductor without ferrule		0.22-6 mm ²		24-10 AWG
1 Flexible conductor with ferrule		0.22-4 mm ²		24-10 AWG
Ferrule maximum outer diameter		Ø Max.	5.5 mm	0.216 in

Multi Connecting capacity per clamp

2 Rigid conductors		0.2-1.5 mm ²		24-16 AWG
2 Flexible conductors without ferrule		0.22-1.5 mm ²		24-16 AWG
2 Flexible conductors with twin ferrule		0.22-1.5 mm ²		24-16 AWG

Don't mix **solid and flexible** conductors in the same clamp

Don't mix **solid or flexible** conductors of different sizes in the same clamp

The "Connecting capacity with ferrule" data is guaranteed with ABB crimping tool PS-3

Cross section

Rated cross section		6 mm ²		10 AWG
Maximum Cross section	Manufacturer data	6 mm ²	Manufacturer data	10 AWG
Gauge	A4-B3 / 3 mm / 0.118 in / IEC 60947-7-1			

Electrical characteristics

Current

Rated current		IEC 60947-7-1	40 A
	Field and factory wiring Cat.2	UL 1059	30 A
	Factory wiring Cat.1	UL 1059	30 A
		CSA-C-22.2 n° 158	30 A

Rated short-time withstand current 1 s (lcw)

Short-time withstand current	0.5 s	Manufacturer data	
	5 s	Manufacturer data	
	10 s	Manufacturer data	
	30 s	Manufacturer data	
	1 mn	Manufacturer data	

Rated short circuit withstand

Max. current (45° temperature increase) / Max. cross section (mm ²)	Manufacturer data	41 A	6 mm ²
Maximum short circuit current (1s)	Manufacturer data	720 A	

Short Circuit Current Rating (SCCR) SA UL 1059 supplement

SCCR UL 1059

With the following configurations:

Maximum voltage	
Suitable conductor wire range	
Fuse rating	
Fuse designation	
Fuse manufacturer name	
Fuse type	
Short circuit current	

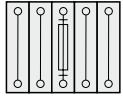
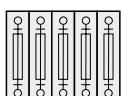
Voltage

Rated voltage	IEC 60947-1	800 V
Rated voltage	UL 1059	300 V
Use Group		UL 1059 C
Rated voltage	CSA-C-22.2 n° 158	300 V
Rated voltage Ex e	IEC/EN 60079-11	400 V
Rated impulse withstand voltage		8000 V
Dielectric test voltage		2000 V
Pollution degree	IEC 60947-1	3
Overvoltage category	IEC 60947-1	III

Dissipated power

Maximum dissipated power at rated current	IEC	2.6 W
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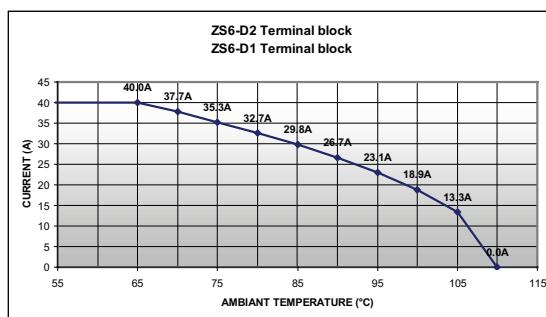
Rated power dissipation at an ambient temperature of 23 °C - IEC 60947-7-3

Overload and short-circuit protection Separate arrangement	 1 fuse and 4 feed-through blocks	
Exclusive short-circuit protection Separate arrangement		
Overload and short-circuit protection Compound arrangement	 5 fuse blocks	
Exclusive short-circuit protection Compound arrangement		

Temperature range

Ambient temperature min/max	Storage	-55 +110 °C	-67 +230 F
	Installing	-5 +40 °C	-23 +104 F
	Service	IEC 60068-2-1	-55 +110 °C
		EN 60079-7	-55 +85 °C

Current Derating curve for continuous service temperature



Environmental Characteristics

Additional climatic tests

Dry heat	IEC 60068-2-2	Compliant
Conditions	Temperature	+100 °C
	Duration of test	96 h
Cyclic damp heat	IEC 60068-2-30	Compliant
Conditions	Temperature	+55 °C
	Number of cycles	2
Cold	IEC 60068-2-1	Compliant
Conditions	Temperature	-40 °C
	Duration of test	96 h
Z/ABDM climatic sequence	IEC 60068-2-61	Compliant
Conditions	Dry heat Duration of test / Temperature	16 h +85 °C
	Cyclic damp heat Number of cycles / Temperature	1 +55 °C
	Cold Duration of test / Temperature	2 h -25 °C

Corrosion

Salt mist	IEC 60068-2-11	Compliant
Conditions	Duration of test	96 h
	Concentration	5 %
SO2	ISO 6988	Compliant
Conditions	Duration of test	48 h
	Concentration	0.2 dm ³
Sulfur dioxide	IEC 60068-2-42	
Conditions	Duration of test	
Hydrogen sulfur	IEC 60068-2-43	
Conditions	Duration of test	
Flowing mixed gas corrosion test	IEC 60068-2-60	
Conditions	Number of the test method	
	Duration of test	

Vibrations

Vibrations	IEC 60068-2-6	Compliant
Conditions	Frequency range	10-55 Hz
	Number of cycles	10
	Amplitude	
	Acceleration	10 m/s ²
Random vibrations and climatic sequence	IEC 60068-2-64	
Conditions	Duration of test	
	Frequency range	
	Acceleration	
Climatic cycles		
Step 1 -> Temperature / Duration of test		
Step 2 -> Temperature / Duration of test		
Temperature variation per minute		

ZS6-D1 Terminal Block Accessories Compatibility

Description		Type	Order Code	Pack ^(ing) pieces	Weight g (1 pce)	Technical Datasheet PDF
1	End Stops	BAZH1	1SNK 900 102 R0000	20	23.90	1SNK 160 026 D0201
2	End Sections	ES4-D2	1SNK 505 960 R0000	20	4.10	1SNK 160 022 D0201
3	Jumper Bars	JB6-2	1SNK 906 302 R0000	50	1.30	1SNK 160 029 D0201
		JB6-3	1SNK 906 303 R0000	50	2.10	1SNK 160 029 D0201
		JB6-4	1SNK 906 304 R0000	50	2.90	1SNK 160 029 D0201
		JB6-5	1SNK 906 305 R0000	50	3.60	1SNK 160 029 D0201
		JB6-10	1SNK 906 310 R0000	20	7.40	1SNK 160 029 D0201
4	Test Adapters	TP2	1SNK 900 203 R0000	20	1.73	1SNK 160 036 D0201
		TP4	1SNK 900 205 R0000	20	2.42	1SNK 160 036 D0201
5	Test Connectors	TC5-R1	1SNK 900 201 R0000	10	5.23	1SNK 160 042 D0201
6	Spacers	ES-TC6	1SNK 900 105 R0000	10	0.80	1SNK 160 042 D0201
7	Shield Connectors	SHB	1SNK 900 602 R0000	20	4.90	1SNK 160 025 D0201
8	Tools	PS-3	1SNK 900 650 R0000	1	380.00	1SNK 160 024 D0201
9	Terminal Block Markers	MC612	1SNK 150 000 R0000	22	0.06	1SNK 160 006 D0201
		UMH	1SNK 900 611 R0000	10	0.20	1SNK 160 001 D0201
		PROCAP6	1SNK 900 612 R0000	20	0.79	1SNK 160 013 D0201
		SAT6	1SNK 900 615 R0000	5	6.00	1SNK 160 013 D0201